



APR 11 1994

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

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April 11, 1994

William F. Caton
Acting Secretary
Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

Re: Ex Parte Meeting; Gen. Docket 90-314

Dear Mr. Caton:

Pursuant to Section 1.1206 of the Commission's Rules, 47 C.F.R. §1.1206 (1992), I hereby notify the Commission that I met with the following members of the Commission staff on April 8, 1994: Julia Kogan, Julius Knapp, Damon Ladson, Renee Licht, David Means, Greg Rosston, Rodney Small, and John Williams. I discussed PCS industry standards activity as summarized in the attached material, and QUALCOMM's position on the Commission's role in the standards process, which was described in QUALCOMM's written submissions in the above referenced proceeding.

Please direct any inquiries concerning this matter to me at (202) 223-1720.

Respectfully submitted,

A handwritten signature in cursive script that reads "Kevin J. Kelley".

Kevin J. Kelley
Vice President, External Affairs

cc: Julia Kogan
Julius Knapp
Damon Ladson
Renee Licht
David Means
Greg Rosston
Rodney Small
John Williams

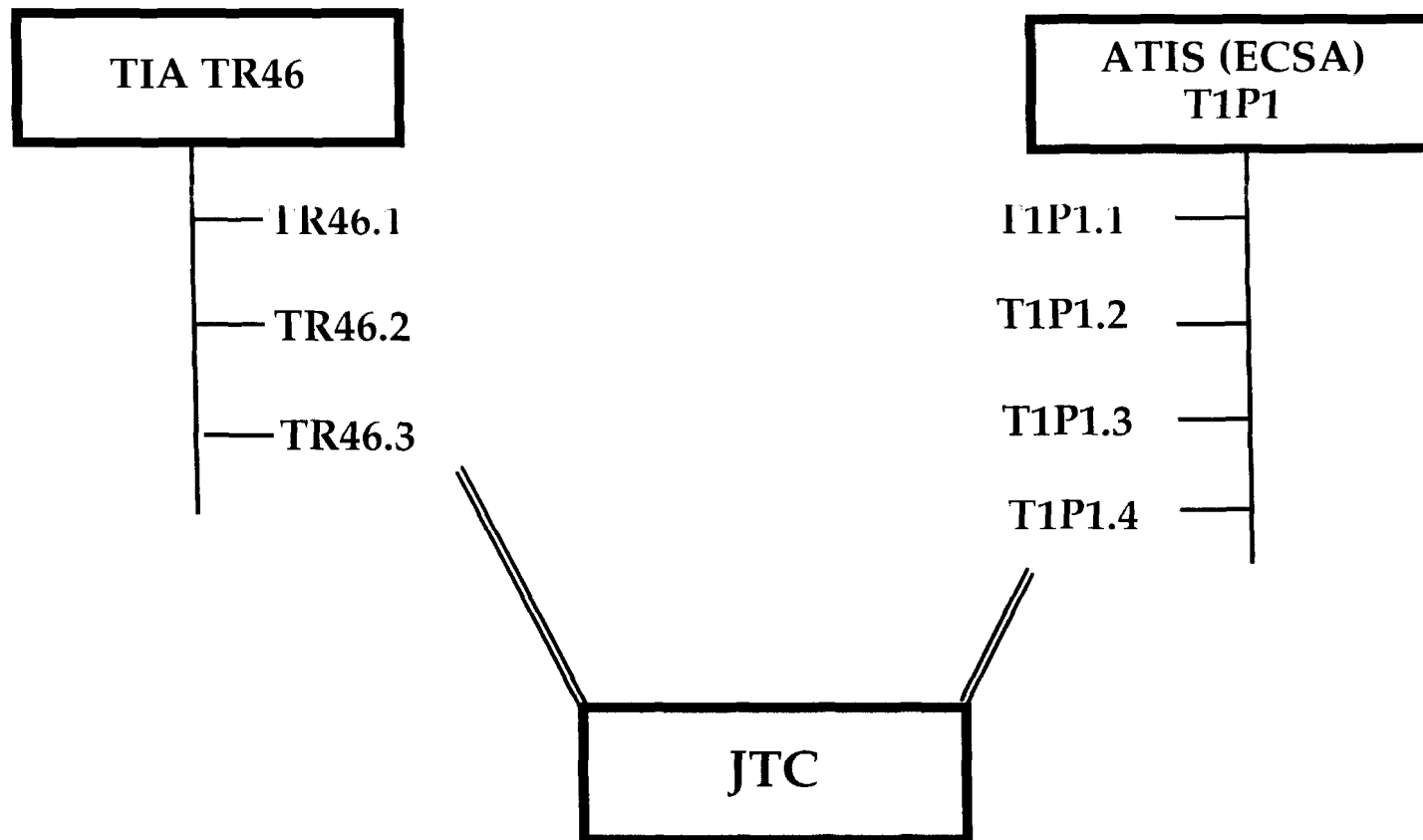


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PCS Standardization Groups





The JTC

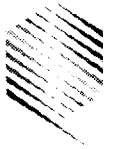
(Joint Technical Committee on Wireless Access)

- **Original plans**
 - **Phase 1 evaluation**
 - **Develop evaluation guide**
 - **Submittal of PCS standards proposals**
 - **Informational evaluation**
 - **Phase 2 evaluation and selection**
 - **Standard development**
- **Current status**
 - **Phase 1 evaluation/17 proposals submitted**
 - **Proposal consolidation/Consolidated to eight**
 - **Eight technical ad hoc groups (TAGs) formed**



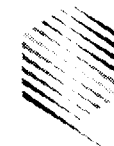
JTC Plans

- **Current work**
 - **Develop draft standards and/or technical reports in TAGs**
 - **Work on reducing number of possible standards**
 - **Work on commonality**
 - **Work on performance evaluation**
- **Initially, propose to parent organizations to ballot as technical standards bulletins/technical reports (TSB/TR)**
- **Determine which technologies are desired by service providers and convert to standards**



IS-95 Based CDMA and the JTC

- **November 1993**
 - Joint Motorola/QUALCOMM phase 1 proposal submitted to JTC
- **January 1994**
 - Consolidated with AT&T proposal
 - Other companies support developing IS-95 PCS standard
 - Draft physical layer text submitted
- **February 1994**
 - IS-95 based Technical Ad Hoc Group (TAG) formed
 - IS-95 based TAG begins work



The Core and Extended CDMA PCS System

	Core	Extended
Bandwidth (MHz)	1.25 mode: 1.23 MHz	adds 2.5 mode: 2.46 MHz
Transmission Rates (kbps)	1.2, 2.4, 4.8, 9.6, 1.8, 3.6, 7.2, & 14.4	1.25 mode: adds 19.2 & 38.4 2.5 mode: also adds 76.8
Voice Rates (kbps)	4, 8, & 13	adds 16 & 32
Data Service Rates (kbps)	all up to 14.4	1.25 mode: all up to 38.4 2.5 mode: all up to 76.8



Proposed Modifications to IS-95 for the First Release CDMA PCS Standard

- **Addition of 14400 bps rate set**
 - Addition of new physical layer frame structures
 - Addition of a new multiplex sublayer
- **Frequency plan to support 1.8 to 2.2 GHz operation**
- **Transmit power and power classes**
- **Initial acquisition with PCS band plan**
- **Operation with OFS**
- **Support for multiple PCS service providers and selection of preferred service provider**
- **Support for private networks using a subset of a spectral allocation**
- **Support for optional multi-mode operation (e.g., 800 MHz and 1.8 GHz operation)**
- **Signaling modifications to support the above changes**